



Title: DSP-4 DUAL-SPECIFICITY PHOSPHATASE

Express Mail No. EL755730737US

Inventor(s): Ralf M. Luche and Bo Wei

Serial No. 09/544,517

Docket No. 200125.410

DSP4, ENCODED BY 651 BASE PAIRS

ACATTGCATC CCTGGGATAA ACGGACCTGG ACAACTCACT CTCTTGGTCT GTGGCTGCTG CGGTTACCTG GATGGGCGAA CACCTCTGAG
GCTGGCTTTG TTACCTGGGC AATAAGGGAC TAGCAGTTCA GCCGTTTCT ATGCCTGCTG GATTGTGTTG TATTTGTTCC CAGCCACTGC
TCATGTAATG TACTCCCTTA ACCAGGAAAT TAAAGCATTG TCCCGGAATA ATCTCAGGAA GCAATGCACC AGGGTGACAA CGCTAACTGG
AAAGAAAATT ATAGAAACAT GGAAAGATGC CAGAATTCAT GTTGTTGGAAG AAGTAGAGCC GAGCAGTGGG GGTGGTTGTG GTTATGTGCA
GGACCTTAGC TCGGACCTGC AAGTTGGCGT TATTAAGCCA TGGTTGCTCC TAGGGTCACA AGATGCTGCT CATGATTGG ATACACTGAA
AAAGAATAAG GTGACTCATA TTCTTAATGT TGCATATGGA GTTGAAAATG CTTTCCTCAG TGACTTTACA TATAAGAGCA TTTCTATATT
GGATCTGCCT GAAACCAACA TCCTGTCTTA TTTTCAGAA TGTGTTGAAT TTATTGAAGA AGCAAAAAGA AAAGATGGAG TGGTTCTTGT
TCATTGTAAT GCAGGCGTTT CCAGGGCTGC TGCAATTGTA ATAGGTTTCC TGATGAATTC TGAACAAACC TCATTACCA GTGCTTTTTC
TTTGGTGAAG AATGCAAGAC CTCCCATATG TCCAAATTCT GGCTTCATGG AGCAGCTTCG TACATATCAA GAGGGCAAAG AAAGCAATAA
GTGTGACAGA ATACAGGAGA ACAGTTATG AGTTGCATTG TAGCAGACAA TGGACAACTG TAGTTTCTGA ATTGACTTCT ATAGCCATCT
TTCCCTTTT TTGGAGAGTA GACTAGCAAA ACTCCCTTTT TTCTCTTGCC TTTTATATGC ATAAATGGAG GTCAATCTGA TTGCTCTGAC
CTACTGTATA AGTAAATTC AAATGTCATT ACTTCTCTT TGTATTATA ATGTGTGATT AAATGCTTTT TAAATGCT AAGGGAAAAT
AAAAAA

Fig. 1

TRANSLATED, 217 AMINO ACIDS

MYSLNQEIKAFSRNNLRKQCTRVTLTGKKIETWKDARIHVVEEVEPSSGGGCGYVQDLSSDLQVGVIKPL
LLGSQDAAHDLDTLKKNVTHILNVAYGVENAFSLDFTYKISILDLPETNILSYFPECFEFIEEAKRKGVV
LVHCNAGVSRAAAIVIGFLMNSEQTSFTSAFSLVKNARPSICPNSGFMEQLRTYQEGKESNKCRIQENSS

Fig. 2



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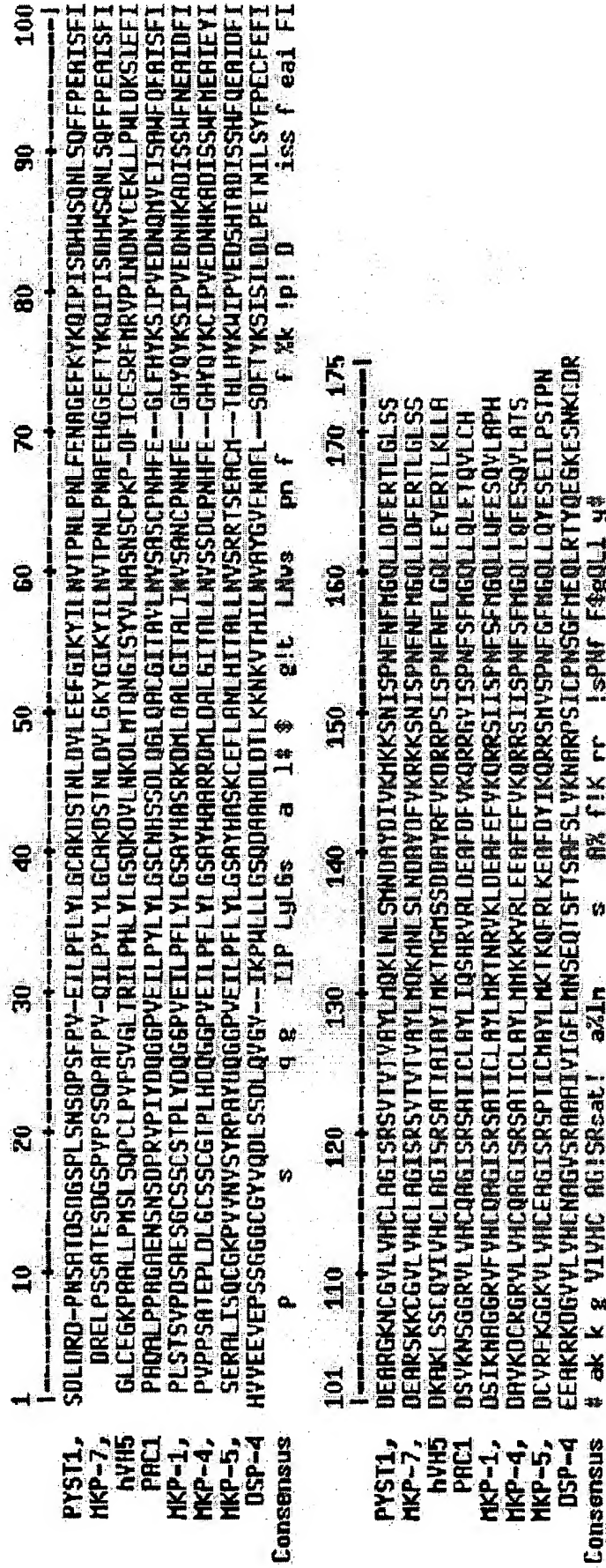


Fig. 3



DSP-4

• Northern blot analysis

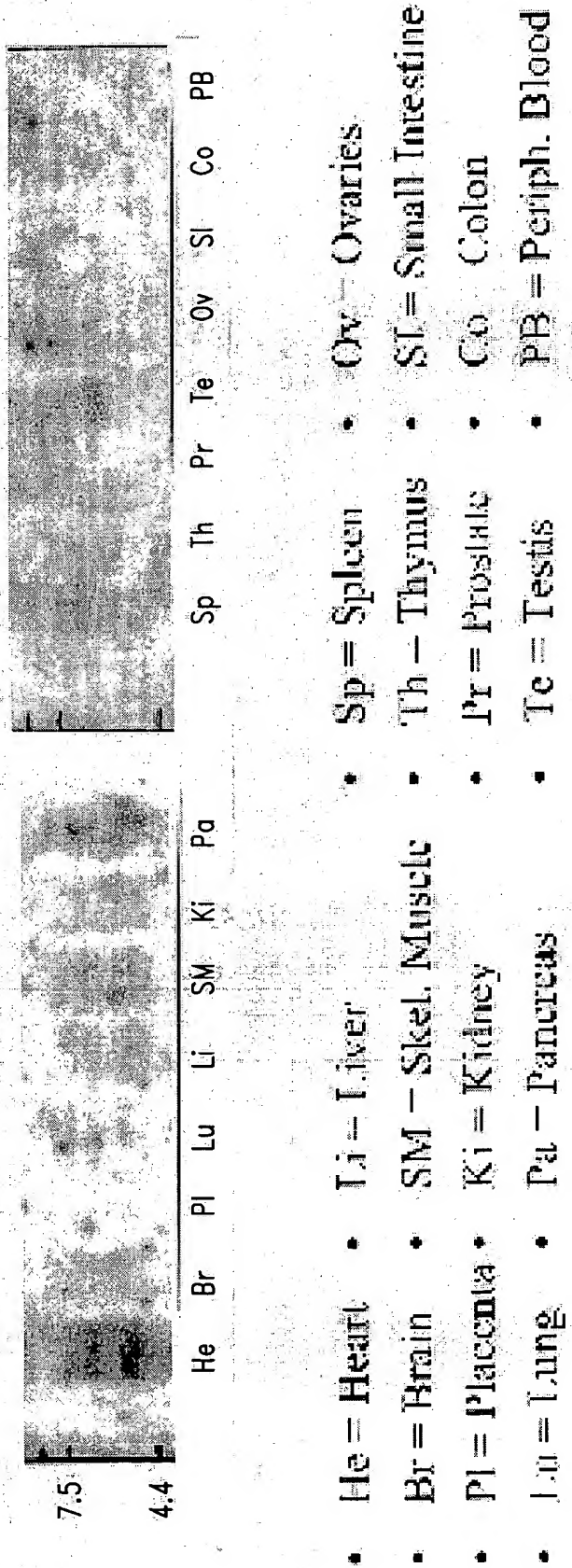


Fig. 4